## Master Programme in Bioinformatics 2018/2019

<table>
<thead>
<tr>
<th>Period 1</th>
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<tr>
<td>180903–181028</td>
<td>181029–190120</td>
<td>190121–190324</td>
<td>190325–190609</td>
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### Courses during the first year

#### Biology Background
- Introduction to Bioinformatics, 10 credits (1MB438)
- Molecular Evolution, 5 credits (1MB461)
- Genome Analysis, 10 credits (1MB462)
- Introduction to Programming, Scientific Computing and Statistics, 10 credits (1TD349)
- Information Management Systems, 10 credits (1DL471)
- Large Datasets for Scientific Applications, 5 credits (1TD268)
- Script Programming, 5 credits (1TD328)
- Database Design I, 5 credits (1DL301)

#### Both Backgrounds
- Introduction to Bioinformatics, 10 credits (1MB438)
- Introduction to Molecular Biology, Genetics and Evolution, 5 credits (1MB439)
- Introduction to Molecular Biology, Genetics and Evolution, 10 credits (1MB439)
- Script Programming, 5 credits (1TD328)

### Computer Science Background
- Information Management Systems, 10 credits (1DL471)
- Large Datasets for Scientific Applications, 5 credits (1TD268)
- Database Design I, 5 credits (1DL301)
- Degree Project D in Bioinformatics, 15 credits (1MB720)*

### Courses during the second year

#### Both Backgrounds
- Phylogenetic Analysis, 5 credits (1MB515)
- Knowledge-Based Systems in Bioinformatics, 5 credits (1MB416)
- Degree Project E in Bioinformatics, 30 credits (1MB830)
- Statistical Inference for Bioinformatics, 5 credits (1MB459)

#### Both Backgrounds
- Population Genetic Analysis, 5 credits (1MB514)
- Computer Assisted Image Analysis I, 5 credits (1TD396)
- Applied Bioinformatics, 15 credits (1MB519)
- Database Design I, 5 credits (1DL301)
- Degree Project E in Bioinformatics, 45 credits (1MB745)

### Optional courses**
- Literature Project in Bioinformatics, 5 credits (1MB782)
- Literature Project in Bioinformatics, 10 credits (1MB783)
- Research Training in Bioinformatics, 10 credits (1MB803)
- Research Training in Bioinformatics, 15 credits (1MB804)
- Research Training in Bioinformatics, 20 credits (1MB805)
- Project Work in Bioinformatics, 10 credits (1MB820)
- Project Work in Bioinformatics, 20 credits (1MB822)

* (1MB720) Degree project D in Bioinformatics is only for students studying towards a one-year master.

** Optional courses are given in different periods and can replace other courses in the programme.

Note that an MSc degree may contain max 30 credits from basic (BSc) level